



Progress Burgs

Jum C 1 1 SC: K. B. Woods, Director Joint Highway Romearch Project

H. L. Michael, Ansighamb Director

Research Assistant or our risk in is aboushed. The profile rise response, the continuing study of opesal twents has been in their tasked in

The resulting of this attribe indicate that all a but being a large cars and brunks wore alightly less during the partie of the the thick they ward in Angust 1959.

Copies of this repart after samptoned or to. Read with in addition to the normal distribution all o be followed and the Indiana State Police Office of Indias Safety, the Truific Engineering Departs ment of the State Highway Separtment, and the Buresh of Fablic Resis.

The report in submitted for all repord and dor release for

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G. A. Leonarde

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Progress Report

Traffic Speed Report Mo. 69

by

Neddy Joury Graduata Research Assistant

Joint Highway Research Project File: 2-3-3 Froject: 0-36-100

> Purcue University Lafayette, Indiana

> > June 8, 1960



LIST OF TABLES AND FYGURES

TABL	7-C 1-15-7 1-15-7									MARIE NO:
SUMM	RT OF SPOT SPEED CESERVATION	٥	?	0	0	9	43	9	a	I.
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U.S.	52-2.2 MILES HORIEVEST OF TEMPLETON .	5	n	o.	0	¢	o.	đ	٥	2. E
C.S.	31-7.2 MILES NORTH OF PERKYSBURG	٥	9	0		0	٥	D	c	P.E.
S.R.	257 Miles South of Americus	÷	o	Φ.	÷	9	9	9	۵	VI
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FIGU	TEC									FIGURE NO.
PHRO	entile speed curves									
U.S.	52-1.0 MILES SOUTH OF S. JOT. S.R. 26	ō	0	۵	Ф	ù	9	٥	9	3
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IJ.S.	52-2.2 MILES MORTHWEST OF TEMPLETON .	0	Ð	6	÷	63	0	0	ġ	3
U.S.	31-7.2 MILLS NORTH OF PERRISBURG	0	Ö	es	0	15	Ó	6	ø	4,
S.R.	257 MILES SOUTH OF AMERICUS	٥	Q	0	9	ø	9	£1	٠	5
U.S.	AL-L.O MILES MORTH OF BOSMIEL	٥	ę.	0	0	0	0	пр	0	6
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	1949-1960	s	0	0		٥		a		ŝ



TRAFFIC SPEED REPORT NO. 69

This report covers spet speed observations made during the months of March and April 1960. All observations were made of free moving vehicles on level tangent sections of rural highways. The locations of the spot stations were the same as for previous studios and are as follows:

- U. S. 52 1.0 mile south of south junction of S. R. 28 (Dual Lange)
- 2, U. S. 52 1.0 mile west of Khondike (Dual Lanes)
- 3. U. S. 52 2.2 miles northwest of Templaten (2 lanes)
- 4. U. S. 31 7.2 miles north of Perrysburg (2 lanes)
- 5. S. R. 25 0.7 mile south of Americus (2 lanes)
- 6. U. S. 41 1.0 mile north of Boswell (2 lanes)

An Electromatic Radar Speed Nater was used to collect the data for this study. The mater was concealed as part of a rural mailbox and placed close by to the edge of the pavement. It was directed along the highway at a small angle with respect to the direction of traffic so that it was not necessary to make an angle correction to the readings.

The observers consisted themselves from traffic as much as local conditions parmitted and it is thus believed that the speeds of the observed vehicles were not influenced by the observer or the equipment.

The radar equipment used will not operate properly if the voltage varies more than minus 1/2 volt or plus 1 volt from the optimum twelve volts. The voltage was therefore checked periodically in the field and maintained within the desired range. Also, correct calibration was maintained by periodically checking it with a 60 mile per hour tuning fork.



A summary of the results of this study, as well as of the last seven studies, is given in Table I. Indiana State law limits the speed of passenger cars and trucks under 5,000 pounds (GVW) to 65 miles per hour. The speed limit of trucks over 5,000 pounds (GVW) is 50 miles per hour on all highways except that on four-lane highways, which have a madian strip of at least twenty feet in width, the speed limit is 55 miles per hour. This new speed limit for trucks has been in effect since about May 1959. Mowever, some, but not all, truck speed limit signs have been posted along the state highways to reflect this change. It can be assumed though, that by now a large portion of the truck drivers are aware of this speed limit change.

Truck speeds are shown in the tables for three groups: light trucks, heavy trucks, and all trucks. Also, it is noted whether the highway is 2-lane or 4-lane. All 4-lane observation stations were on highways with a median of greater than twenty feet. Since weights were not taken in this study, light trucks (less than 5,000 pounds) were considered to be only panel trucks and pick-up trucks. All other types of trucks were classified as heavy (over 5,000 pounds).

The passenger car data were also classified into three groups: Indiana, out of state, and all passenger cars. The classification was determined by observing the license plate on each passenger car passing the observation station.

So that an easy comparison can be made between the results of the present study and the last previous study, the results from each speed station for both studies are tabulated in Tables II through VII.

Average and 85th percentils speeds were computed for each vehicle group from the sample of vehicles taken at each study site. A comparison



is then made with the speeds of the last study in July and August of 1959, and the differences in speeds are briefly discussed.

The average speed for all passenger cars decreased by Loh miles per hour since the last study (August 1959) while average speeds for all trucks decreased Loh miles per hour. Indiana passenger cars decreased their average speed on 2-lane highways by 2.3 miles per hour while their average speed on 4-lane highways decreased by 0.3 miles per hour. Out of state passenger cars decreased their average speed on 2-lane highways by 0.5 miles per hour while their average speed on k-lane highways decreased by 0.9 miles per hour.

The average speed for light trucks decreased by 1.2 miles per hour on 2-lane highways and increased 2.4 miles per hour on 4-lane highways.

For heavy trucks the average speed decreased 0.8 miles per hour on 2-lans highways and decreased 5.8 miles per hour on 4-lans highways.

The 85th percentile speed for all passenger cars decreased by $0.5\,$ miles per hour.

Trend information on the average opend of passenger cars and trucks is shown in Table 1 and Figure 7 and 8. Table 1 is a summary of Spot Speed Observations on Indiana Highways for the last eight studies since February 1956. This summary of Spot Speed Lists the observations for Two-lane Highways, Four-lane Highways and All Highways for both passenger cars and trucks.

Figure 7 is a graph showing rural speed trands from 1942-1960.

The speed trands shown are for passenger care, light trucks and heavy tracks.

Figure 8 is a graph showing trends in percentile speeds and speed differential from 1949 - 1960. The percentile speeds shown are for both



passenger cars and heavy trucks. The speed differential is the difference between the 85th percentile of passenger cars and 15th percentile of heavy trucks.



TABLE I

SUMMARY OF SPOT SPEED OBSERVATIONS ON INDIANA HIGHWAYS

(Free-Moving Vehicles on Level, Tingent Sections)

			Passeng	er Cars	er Trindriene er Canhird (s. 12-14)er er C. Leve (für 1921)	THE RESERVE OF THE PARTY OF THE	Trucks	des armenetidas secuciónas estu-
		Ind Wean	Non-Ind Mesn	All Man	ANI 85 par	Idght Man	Heavy Mean	All
Two-Lans Hilghways	Feb. 156	54.09	58±0	55.9	6342	1.763	43 e 2	Lilie de
Co-Tracking and Tracking	Avg. 156	55.0	56.3	55.5	63 4 lz	50-6	45.5	1,6.6
and and the second	May 157	55.6	59.1	56.9	64.0	\$0.2	Wes	46.2
	Aug. 157	5505	56=7	55.9	52:3	51.7	45.8	47.3
destination on the second	Aug. 158	54.03	56.3	55.0	62.7	53.0	46.3	1,7.8
denie of the College	Mara 159	55.5	57.07	55.1	639	50.4	45.4	46.3
e go e ve y a dillimentale e ve	Aug. 159	55.6	55.3	55.9	63.2	49.7	45.7	48.0
of the probability over the	Mar. 160	53.27	54.8	53.7	62.2	48.5	45.9	46.6
Four-lan Ki.ghwaya		59.1	60.3	58.7	6547	1.7.8	45.2	45.8
TA THE STATE OF TH	Aug. 955	57.4	58.8	58,2	66.8	49.6	46.0	47.1
And the second s	May 157	59.9	63.6 .	61.0	69.0	52,2	46e0	47.9
T. Dr. en-Conneggie	Aug. 157	57.5	59.9	58.5	6150 B	52.0	2,606	47.6
Property of	Aug. 158	58.0	59.6	58.7	65=0	54.3	49.0	50.0
Augustus Canal relative	Mar. 159	58.2	61.47	59.0	61,09	53.6	47.0	48=1;
	Aug. 159	58-4	60.1	59.1	64e5	50.0	53.3.	49.5
	Mare 160	58.1	59.2	58.4	65.0	52.4	17.3	48.4
All Highways	Peb. 156	56.0	58.6	56.8	63.8	47.63	4400	1,409
No. of the state o	Aug. 156	5507	57.3	56.4	64.5	50.2	45.6	46.9
a proportion of	May 157	57.2	60.3	58.3	66.0	50.9	45.2	46.6
100 P. Balana MANYA	Aug. 157	56.2	55.3	56.9	63.2	51.8	46.2	4704
Bellin of the Control	Aug. 158	55.7	57.9	56.5	63,1	53.4	47.5	48.7
	Mar. 159	56.6	59.0	57.2	63.1	51.5	45.9	47.0
Property and to 1 years of	Aug. 159	36.5	58.4.	5701	63.5	50.6	1.7.8	48.6
Medicine.	Marr. 160	55.6	57-3	56,0	63.0	50.2	16.5	

TABLE

Station 1 Mile south of south junction of US 52 & SR 28

Last Previous Observation (Speed Report No. 67 Cloudy - windy Weather Surface 4 lane divided - 24' bituminous concrete This Observation

Aug. 3, 1959 8:50 - 10:50 AM April 3; April 6; April 8, 1960

Presen BUSSES 186 Last Present 0.0 46.5 spunod 0009 0.0 0.0 87 or more 126 8 ä 69 9.67 55.7 12.9 2.9 0.0 0.0 0.0 51.1 18.4 33 8 38 8 8 Present 49.2 0 5000 pounds Less than g 읽 쑀 TRUCKS Last 0.0 51.9 6 82 36 79 Present 3.0 0.0 6.94 68,0 50.0 8 F 0.0 0.0 0.0 50.4 ast 38 # Last Present Non-Indiana 200 0.96 18.0 60.5 60.5 82 38 ဌ ଞ 89.5 98.7 60**.**3 108 77 PASSENGER CARS Last Present 60.2 95.5 20.0 7.0 2,0 0.09 7.09 Indiana 216 84 පී 59.9 93.6 59.4 4 음 8 88 g Last Present 19.0 0.9 2.0 0.96 84.0 61.0 80,3 205 524 F 96-3 24.8 409 85.3 61.3 533 Ave. Speed (m.p.h.)

Ave. Speed (m.p.h.)

Ave. Speed (m.p.h.) No. of Vehicles Obs. No. of Vehicles Obs. No. of Vehicles Obs. Max. Speed (m.D.h. Speed (m.p.h. Ave. Speed (m.p.h. State or Type Max. Speed (m.p.h. Speed (m.p.h. State or Type State or Ivpe State or Type Ave. Speed (m.p.h. 70 ш.р.р. Min Min BOUND



비 TABLE

Station 1.0 Mile west of Klondike on US 52

Weather Cloudy Last Previous Observation (Speed Report No. 67 Weather Date March 21, 1960 and March 23, 1960 Time 1:35 - 3:45 PW 1:30 - 3:30 PM 24' Portland Cement Concrete This Observation 4 Lane Divided Surface

Date July 10, 1959 Time 2:45 - 5:10 PM

ES.		1	Present		1		1	1				2	1	1						. 1			1	1	1			1		
SESSINE		AL	Tagt.		1	•	1	1	1			1	-	1		1		-					1	1	1			1		
	5000 pounds	2.00	Present	30.	138	47.1	65.0	1.50	1			0.0	0.0	0.0	3	8	0.67	99	1	21	7	-	77	45.5	ů,	*		28		
	2000	or mor	1000		97	19.3	77.6	4 72	-	0	1	1.5	0.0	C	2	7	4015	62		200	1	1	34	47.3	99	3	1	38		
	nan	spun	Present	20000	33	51.4	0.67	0	3 (200	0	0.0	0.0	0	3	R	53.2	26		9	7		19	49.5	5	3	-	9	-	
TRUCKS	Less than	5000 pounds	1	1	15	52.0	0-08	477	200	7	13.3	13,3	4.7	C	200	6	52,3	99	-		2	1	9	51.5	32	7	1	38		
	=		1000	ונומממות	178	0.87	0.89		1000	700	3.0	0.0	c		7.	82	50.0		1				96	1.6.3						
		All	!		82	8-67	0 86	100	2002	19.5	8.5	3.7	,		200	75	51.6						07	1.7.9	1					
		anail		ast Fresenu	124	57.2		0.00	89.0	68.0	0.77	11.0		0.0	0.0	62	59.7	7.2	3		177	-	62	α	2	88	-	36	1	
		Non-Indiana		ast F	157	28.6			89.68	79.6	51.0	15.9	000	200	٥٥	88	61.3	76	2		1717	-	8	E/ E	200	2,2	1	36		
R CARS		-	2410	Present	362	56.1	2007		85.0	57.0	36.0	0.01		7000	0.1	189	57.6	100	744		32	1	173	1	74.4	7/4	1	31.	-	
PASSENGER CARS		Indiana	31	Last P	228	,	7017		89.9	66.2	14.7	ά.	200	707	7.0	124	58.6	2	2	1	77		20	- 1	22.4	2		30	2	
				Last Present		-	7004		86.0	0.09	38.0	0	7007	0.4	0.0	251	3	***			١		22.5	25	24.5					
			7	Last P	385	c	2/00		89.8	7.7	1.7.3	32 5	4202	2.9	0.5	10	7 O	┸						4	20.0	1				
				ORSERVATION	1	No of venicies cos	Ave. Speed (m. D. no)	od 45 menobe	50 m.p.h.	in a standard	i i	IS DO IS DO IS	II will be menon	с 1 70 m.p.h.	% 0 75 m.p.h.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	No of Venicles Obso	AVE. Speed (mopoling)	Max, Speed (m.p.h.)	State or Type	With Space (m n h)	The state of the s	State of type	No. of Vehicles Ubs.	Speed (money)	D May Speed (m.p.h.)	The Court was a series	State or 1Vp	Min. Speed (m.p.h.)	State or Type



SPEED DATA

Station 2.0 Miles northwest Templeton on US 52

Weather Cloudy	Last Previous Observation (Speed Report No. 67) Date July 17, 1959 Time 3:00 - 4:30 PM	
Bituminous	ation March 25, 1960 3:30 - 5:00 PM	
Surface 2 Lane 22		

4	Present	1	ł	-		1	1	1	1	-	1	-					1	*	1		1	
ď	Tagt.		1						1	-		1	a.com	1			1	1	ł	100	ł	١
pounds	Present	37.	47.3	78.0	0.94	3.0	0.0	0.0	0.0	0.0	21	72.0	55	-	38	. !	16	47.7	53	1	07	1
5000 sr	Last	79	47.9	82,3	43.5	3.2	1.6	0.0	0.0	0.0	34	7.7.4	54		28	1	23	48.5	જ	1	38	1
than ound.	Present	7	8°67	75.0	75.0	25.0	0.0	0.0	0.0	0.0	2	05	20	-	50		2	49.5	55	1	1/1/	1
Less 5000 p	Last	4			85.7	42.9	0.0			0.0	7	53.5	26	-	OS		3	0.13	56	-	94	
п	Present	17	7.6	78,1	8.84	5.0	0.0	0.0	0.0	0.0	23	77.3					18	47.9		1	۱	
, TA	Last	69	48.3	84.1	47.8	7.2	1.4	0.0	0.0	0.0	38	87					56	48.7				1
ndiana	Present	93	56.4		91.4	58.0	32.0	9.0	2.0	0.0	58	58.0	72		87		35	53.7	72	-	4.2	1
Non-L	Last	123	56.7		88.6	62.6	33,3	10,6	4.1	0.0	91	57.0	20	-	39	1	32	56.0	20	1	4.2	
iana	Present	79	57.0		92,2	0°79	33.0	6.0	5.0	0.0	38	9*95	72		97		56	57.7	70	1	07	1
Ind	Last	66	56.3		82.8	9.65	38.4	11.1	0.4	1,0	179	56.2	74.	1	28		35	56.5	78	1	38	1
п	Present	157	56.7		92.0	0.19	42.0	0.6	3.0	0.0	96	57.4					19	55.4		1		
Æ			56.5		0°98	63,1	35.6	10,8	4.1	0.5	155	56.7					29	56.3				
-	OBSERVATION	0	Ave. Speed (m.p.h.)	No 45 monoho	№ 5 50 ш.р. h.	ਵ ਤੋਂ 55 m.p.h.	1 0 60 m b b	SX 65 m p. b.	А 70 пор. р.	№ 8 75 nop.h.		Ave. Speed (monoh.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type
	All Indiana Non-Indiana All 5000 pounds All All 5000 pounds All	All Indiana Non-Indiana All 5000 pounds or more A. Last Present Last	All Indiana Non-Indiana All 5000 pounds or more Lest Present Last	All Indiana Non-Indiana All 5000 pounds All All	All Indiana Non-Indiana All 5000 pounds All All 5000 pounds All All 5000 pounds All All	OBSERVATION Last Present La	OBSJRVATION Last Present La	OBS-RVATION Last Present La	OBSJRVATION Last Present Last Ave. 27	OBSERVATION Last Present Last Last Also Last Last Last Also Last Last Last Last Last Last Last Last	OBS-RVATION Last Present Last Last Present Last Last Last Last Last Last Last Las	Last Present Las	Last Present Last Last Present Last Present Last Last	Indiana Indiana Non-Indiana All Solo pounds Or more All Solo Solo	Indiana Indiana Non-Indiana All Solo pounds Or more All Solo Or more All Solo Or more All Solo Or more All Solo Or Or Or Or Or Or Or O	Indiana Indiana Non-Indiana All Solo pounds Or more All Solo Solo	Indiana Indiana Non-Indiana All Solo pounds Or more All Solo So	Indiana Indiana Non-Indiana All Isas than 5000 pounds Or more Last Present Las	Indiana Indiana Non-Indiana All Iess than 5000 pounds Or more All 12st Present Last Present	Indiana Indiana Non-Indiana All Less than 5000 pounds Or more All	Last Present Las	Last Present Las



7.8 Miles N. of Perrysburg on US 31 Station

Last Previous Observation (Speed Report No. 67)

Date Aug. 10, 1959

Time 10:10 AM - 12:40 PM Date March 29, 1960 Time 12:45 - 4:15 PM 2 Lane 22' Bituminous This Observation Surface

35.5	All	ast Present	1	1	1	1		-	1	-	-	1	-	-	Į,				-				
BUSSES	A	Last.		1	1	-	1	1	1		1	1	1	1	١	1		-	ł	1			1
	5000 pounds or more	Last Present	76	45.9	92.0	55.0	33.0	3.0	1.0	0.0	0.0	07	7*87	56		1,2		36	43.2	99		26	
	5000 or	Last	59	48.8	81.4	50.8	11.9	3.4	1.7	0.0	0.0	30	50.2	62		38	-	29	47.6	99	-	32	
KS	than	Present	26	50,2	0*96	73.0	62.0	27.0	0*8	0.0	0.0	7 τ	6*15	58		07	-	12	48.2	8		32	
TRUCKS	Less than 5000 pounds	Last	27	48.9	49.3	40.44	22,2	11.1	7.4	7.4	3,7	17	50.7	76	-	33		10	45.8	54	-	38	1
	-	Present	102	47.0	59.8	40.2	8.8	3.0	0.0	0.0	0.0	54	49.3	1				847	44.44		1	-	
	LTA	Last	98	8.84	74.4	48.8	15,1	5.8	3.5	0.0	0.0	24	50.3	1	-			39	47.2				
	diana	Last Present	53	54.3		81.4	37.2	9.3	2.3	0.0	0.0	28	55.4	99	-	07	1	25	53.0	64	-	36	-
	Non-Indiana		8	55.7		82.5	55.0	32.5	7.5	3.8	0.0	32	6.95	72	-	877	1	84	6.45	8	1	34	1
PASSENGER CARS	Indiana	Last Present	246	52.5		66.5	40.7	23.0	7.9	2,5	0.0	128	54.7	72	1	34		118	50,1	2		30	1
PASSENC	Indi	-	250	56.1		83.2	63.2	33.2	9.6	3.2	1,2	130	57.1	90		32		120	55.0	78	1	31_	1
	П	Last Present	299	52,8	1	71.0	41.0	23.0	5.0	2.0	0.0	156	54.8		1			143	9°05		1		
	411	Last	330	26.0	1	83.0	61.2	33.0	9.1	3.3	1,2	162	57.7					168	6.45	1			
		OBSERVATION	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	o 45 m.p.b.	50 m p.h.	55 m.p.h.	60 m p.h.	oxionity of the party of the pa	70 m.p.h.	5 75 m.p.h.	of Vehicles Obs.	Speed (m.p.h.)	M Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type	of Vehicles Obs.	S Ave. Speed (month.)	Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Type
		0	No.	AVE		3	u	TT:	nt	্ন ∀	*	Q.	AV.	BC		Min		ON G	AVA	BC		Min	



Station 0.7 miles W. Americus on S. R. 25

2 lane 22' Bituminous This Observation Surface

Date April 1, 1960 Time 2:45 - 4:20 PM

Last Previous Observation (Speed Report No. 67)

Date July 16, 1960

Time 2:35 - 5:05 PM

			PASSEN	PASSENGER CARS					TRUCKS	CKS			BUSSES	SS
	A11	ч	Ind	Indiana	Non-Indiana	diana	LTA	н	Less 5000	Less than 5000 pounds	5000 r	5000 pounds or more	LTA	-
	Last	Present	Last	Last Present	Last	Present	Last	Present	Last	Present	Last	Present	Last.	Present
No. of Vehicles Obs. 3	325	344	787	315	17	29	69	96	23	33	97	63		
Ave. Speed (m.p.h.)	54.8	53.9	54.6	53.8	55.8	55.0	8.84	7.94	6 67	48.5	0.84	45.7	1	1
		1				1	73.9	65.0	73.9	0.97	73.9	59.0	1	1
	78.8	77.0	78.9	76.5	78.0	83.0	42.0	30.0	52.2	39.0	37.0		1	1
	51.7	0.64	9.67	1,8,0	62.6	52.0	20.3	0.9	34.8	0.6	13.0	5.0	1	1
	30.5	21.0	29.6	20.0	36.6	24.0	5.8	3.0	13.0	0.6	2.2	0.0	1	1
	8.3	0.9	8.5	0.9	7.3	3.0	2.9	0 0	4.3	0.0	2.2	0.0	1	
	3.4	2.0	3.9	2.0	0.0	0.0	1.4	0.0	0.0	0.0	2,2	L	1	1
№ 0 75 дор.ћ.	9.0	1.0	0.7	1.0	0.0	0.0	1.4	0.0	0.0	0.0	2.2	L	1	1
-	136	150	117	134	19	16	33	64	80	6	25	9	1	1
S Ave. Speed (mop.h.)	54.0	54.3	53.6	54.1	56.7	56.1	0.97	45.0	748.0	45.4	45.9	6.77	1	1
Max. Speed (m.p.h.)	1	1	2	79	89	99		1	9	53	95	Ш	1	1
State or Type	1	1	1		-		1	1	1			!		
Min. Speed (mon.h.)	1	1	32	34	077	4.2		1	077	36	36	32	464	-
State or Ivpe	1	١	1	1	1	1	1	1	1				-	1
0	189	194	167	181	22	13	36	1.7	15	77	ಸ	23	1	1
S Ave. Speed (mon.h.)	55.3	53.7	55.4	53.7	55.0	53.6	51.3	7.87	51.8	9.67	51.0	47.1	1	
Max. Speed (m.p.h.)	1	1	88	92	99	63			65	65	9/	55	ı	1
State or Type	1	-	1	1	1	1				1	1	-		1
Min. Speed (m.p.h.)	1	1	07	36	04/	42			07	37	077	07	-	1
Chate or Tere														



Station 1.0 mile north of Boswell on US 41

Weather Warm and Sunny	Last Previous Observation (Speed Report No. 67) Date Sept. 1, 1959 Time 9:00 - 11:45 AM
2-lane	
and Cement Concrete 2-lane	ervation Date April 12, 1960 Time 2:45 - 5:00 PM
Cement	ervation Date Apri Time 2:45
ourface 22' Portland	This Observ Dato
Surface	

٦	Present	1	-	1	-	-		1	•	***	1		-	-		-	1	•				
A	Last	-	-			ł	-	1		-	1	-	1	1		1	1	1	-		-	
ounds	resent	73	45.3	56	29	3	0.0	0.0	0.0	0.0	32	43.5	58		30	.	17	46.7	26		34	
5000 p	Last	63	9.44	50.8	25.4	8.4	0.0	0.0	0.0	0.0	56	43.4	95	-	30	.	37	45.5	55		3/4	-
chan	resent	31	0.74	84	35	19	13	9	9	3	15	47.2	92	-	36		16	6.97	9	1	36	
Less t 5000 po	Last P	24	9.05	83.3	54.2	16.7	12.5	8.3	0.0	0.0	11	52	69		077	İ	13	49.5	9	1	39	
1	Present	104	45.8	54.0	31.0	8.0	0.4	2.0	2.0	1.0	1.4	9.41	1		1	1	57	8.97				
T	Last	87	6.97	59.8	33.3	8.0	3.4	2.2	0.0	0.0	37	97	1	1	1	1	દ્ધ	46.5	1		١	
diana	resent	106	53.7		76.5	18.0	23.0	5.0	2.0	0.0	72	94.6	72	-	38		34	51.7	7/9		38	
Non-In	Last	135	9.75	1	85.9	68.9	45.2	14.8	4.7	0.0	62	58,1	7.4	-	07	1	73	177	472	1	04	I
ana	Present	149	51.8		67.0	38.0	15.0	3.0	1.0	0.0	16	52.5	20	1	34	1	73	51.1	ę.	1	32	1
Indi			7.95		83.1	63.5	41.1	11.2	0.4	0.8	29	9.95	177	1	35	1	57	56.2	2	1	36	1
1	Present	255	52.6		77	42	18	4	2	0.0	148	53.5			1	I	107	51.3	1	1	1	
A	Last	259	57.0	1	9**8	0.99	43.2	13.1	4.2	0.4	129	57.3		1	1	1	130	56.8	1	1		-
	OBSERVATION	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	No 45 m. Doh.	2 50 ш.э.р.	n 25 m.p.h.	4 G m 09	oxigent and the second	П 70 шор. р.	№ 0 75 дорана	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Ivpe	No. of Vehicles Obs.	Ave. Speed (m.p.h.)	Max. Speed (m.p.h.)	State or Type	Min. Speed (m.p.h.)	State or Ivos
	All Indiana Non-Indiana All 5000 pounds or more All	All Indiana Non-Indiana All 5000 pounds or more last Present Last Pres	All Indiana Non-Indiana All 5000 pounds All 5000 pounds All 5000 pounds All Sounds All A	All Indiana Non-Indiana All 5000 pounds All All	No. of Vehicles Obe. 259 255 124 149 135 106 53.7 46.3 45.8 50.6 47.0 44.6 45.3	All Indiana Non-Indiana All 5000 pounds All Al	Non-Indiana All Indiana Non-Indiana All Somo pounds OBSERVATION Last Present Las	All Indiana Non-Indiana All 5000 pounds or more A Less than 5000 pounds or more A Less Present Last Last Last Last Last Last Last Las	All Indiana Non-Indiana All 5000 pounds All 5000 pou	Non-Indiana All Indiana Non-Indiana All 5000 pounds OSSERVATION Last Present Las	OBS.RVATION Last Present La	Lest Present Last Present Las	Lest Present Last Present Las	Lest Present Last	No. of Vehicles Obs. 1231 1231 124 125 124 125 124 125 125 124 125	Lest Present Last Rast Rast Rast Rast Rast Rast Rast R	Lest Present Last	All Indiana Non-Indiana All S000 pounds Or more All S000 pounds Or more All S259 S25 S24 S440 S37 S440 S450 S450	All Indiana Non-Indiana All 5000 pounds or more A 259 2556 124 14.9 135 106 37 104 31 Present Last Present La	Last Indiana Non-Indiana All Soot pounds Soot pounds All Indiana Non-Indiana All Soot pounds Soot pounds	All Indiana Non-Indiana All 5000 pounds Or more All 5259 255 124 149 135 106 135 106 145 135 135 146 145 135 146 145 135 146 145	Last Present Indiana Non-Indiana All



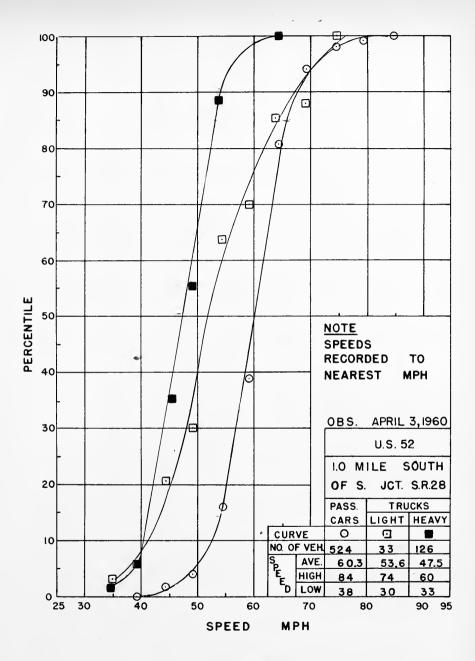


FIGURE I



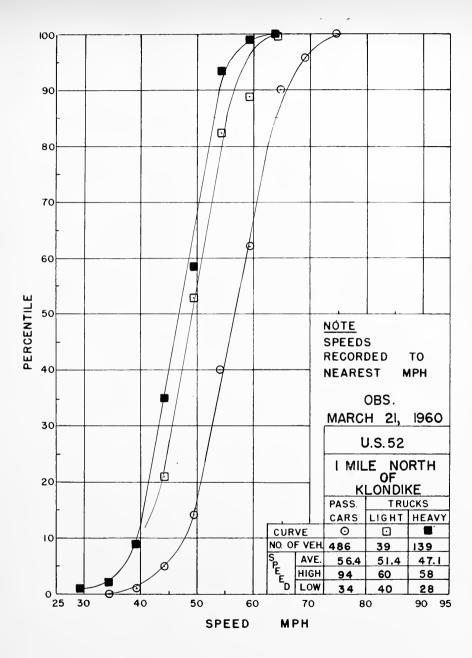


FIGURE 2



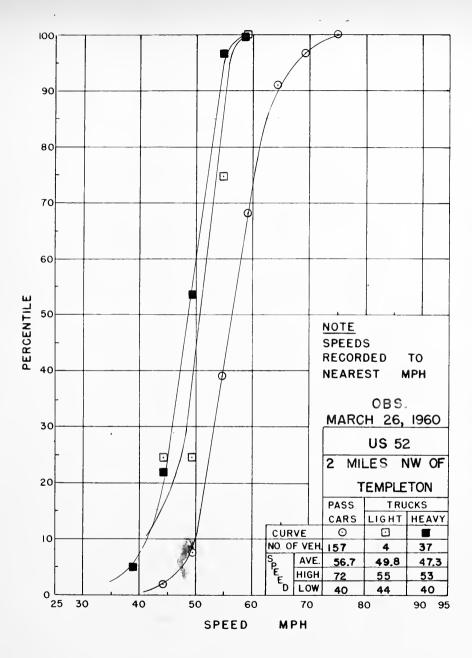


FIGURE 3



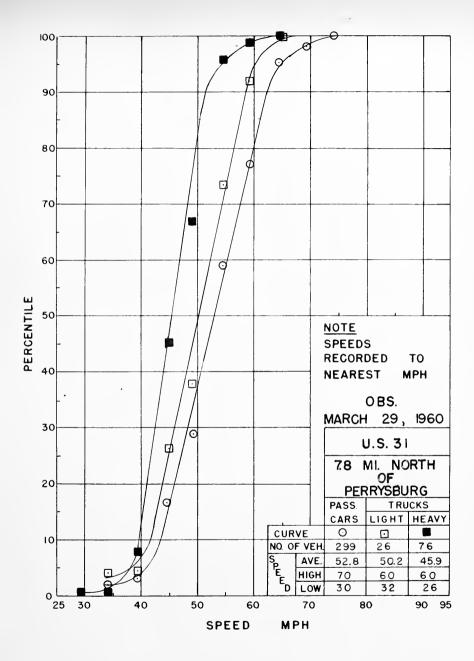


FIGURE 4

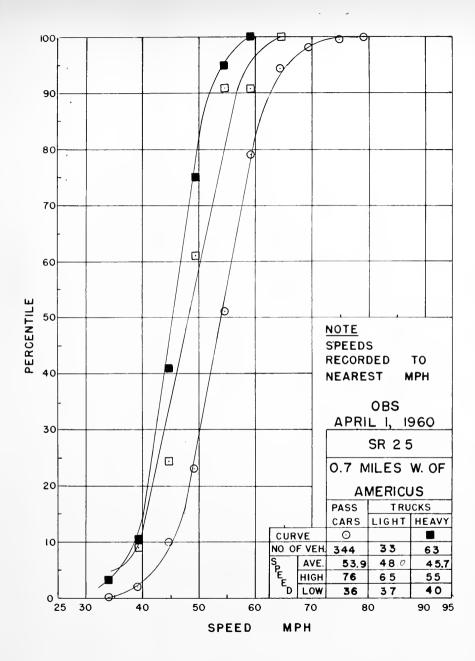


FIGURE 5

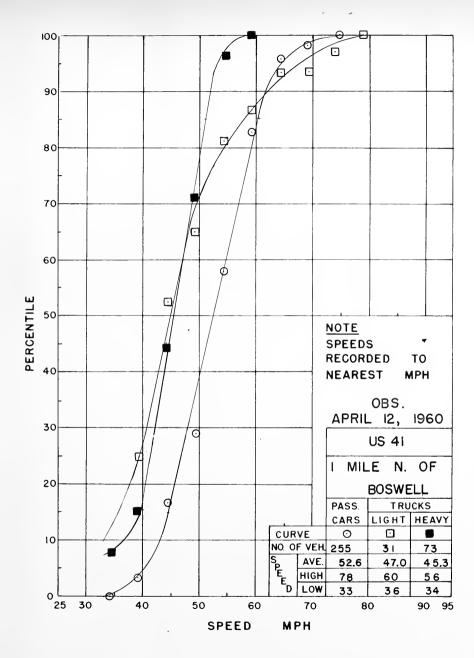


FIGURE 6



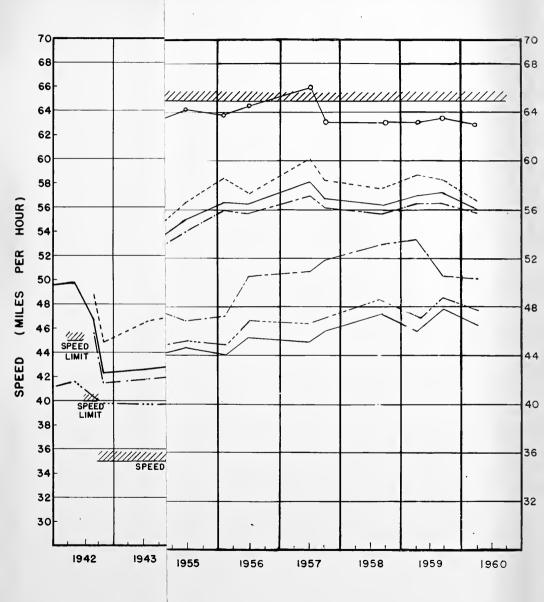


FIG. 7



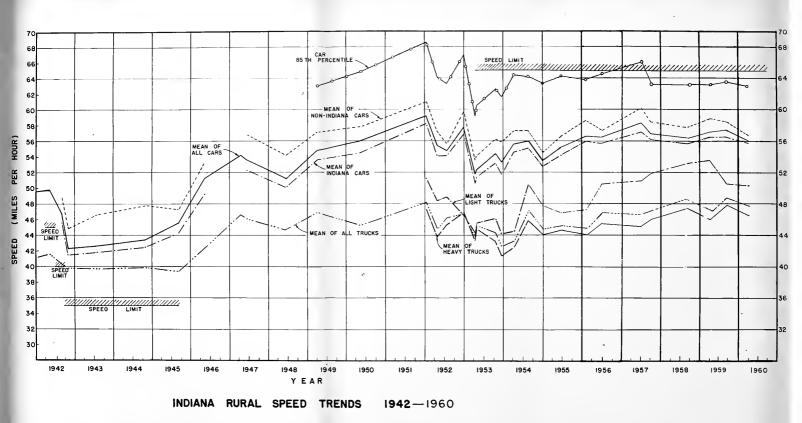
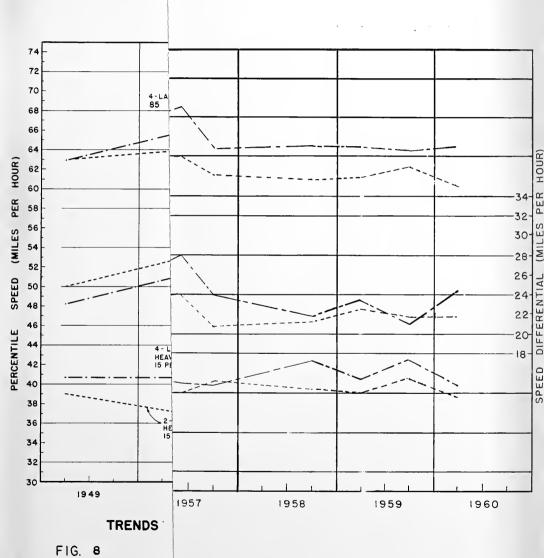


FIG. 7







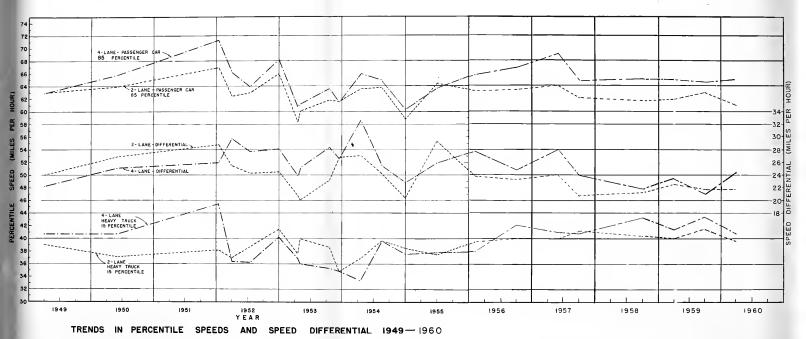


FIG. 8





